

## ABSTRACT

The present invention provides an improved and more efficient method for the purification of Beta glucan, mannan and manno-protein complexes or immuno-potentiating substances, directly from yeast. In addition, the present invention provides methods for the production of Beta glucan, mannan and manno-proteins for use in animal feed to (1) prepare and enhance the immune system to fight infections more effectively and efficiently, (2) increase resistance to and decrease duration of bacterial and viral infections, (3) allow producers to reduce or remove “growth promotion antibiotics” in feed systems, thus producing more naturally grown animals, (4) reduce or prevent the negative growth response normally associated with administration of live vaccines to animals and (4) other associated health benefits such as in the case of swine of increased piglet litter size and survivability for piglets after weaning when Sows fed this novel Beta glucan extract.